

THE BULLETIN

UNIVERSITY OF TORONTO

OCTOBER 7, 2002 • 56TH YEAR • NUMBER 5

HARDWOOD FLOORS



Although it's the size of some apartments, this is actually a treehouse. Architect and entrepreneur Gerald Sheff sponsored a competition at the Faculty of Architecture, Landscape, and Design this year to come up with a grand architectural plan. The recently completed product was designed by first-year master of architecture student Lukasz Kos. This home-above-a-home is located at Sheff's residence in Point William, Ont.

LUKASZ KOS

Focus on Increasing Endowment, Dellandrea Says

By Jamie Harrison

THE UNIVERSITY MUST INCREASE the size of its endowment if it is to compete with peer institutions around the world, according to Jon Dellandrea, vice-president and chief advancement officer.

Dellandrea told Business Board Sept. 30 that even though the university is approaching \$1 billion in funds raised since launching its campaign in 1997, it must still battle the perception that U of T is a rich institution.

"From a global perspective, or even a Canadian perspective, we are not," Dellandrea said. "While our overall endowment currently stands at more than \$1.4 billion, other Canadian universities with smaller enrolments are still ahead of us in terms of endowment per student, namely Queen's and McGill."

Among peer institutions in the United States, Dellandrea added,

U of T's endowment ranks even lower. "To compete with our peer institutions — Virginia, Michigan, UC Berkeley, to name a few — we really need to vastly increase our endowment," Dellandrea said. "To be ranked amongst the best public research institutions in the world, we must be on a somewhat equal footing in terms of the funds we have available for research initiatives, irrespective of what the currency exchanges are on a particular day."

Among North American public university endowments, U of T ranks 13th with \$961,103,000 US, while the University of Texas system has an endowment of more than \$10 billion.

According to Provost Shirley Neuman, an increased endowment will enable the university to offer more to both the faculty and students. As she begins to prepare for the next stage of academic planning at U of T, Neuman said

she wants to see undergraduates embrace study-abroad programs, academic globalization and increasing interdisciplinary programs.

"The requirements for public support continue to be influenced by emerging academic priorities and the challenges of enrolment expansion," Dellandrea wrote in the annual report of the Division of University Advancement. "The campaign will continue to be servant to the academic plan."

Meanwhile the university is seeking support for several key capital projects including the Centre for Cellular and Biomolecular Research and the University College residences. Under the chairmanship of Tony Comper, the Campaign for the University of Toronto has raised more than \$900 million and is the most successful campaign in Canadian fundraising history.

Brand-Aid Encourages Greater Co-operation

By Lanna Crucefix

GREATER CO-OPERATION AMONG universities is key to ensuring that codes of conduct for fair labour practices are adhered to, say university representatives who attended a recent licensing and branding workshop on campus.

One of the key issues raised during Brand-Aid — a one-day event that brought together 40 bookstore managers, brand managers, trademark administrators and lawyers from 17 universities across Canada to discuss branding and licensing issues — was that of monitoring already established codes of conduct. Currently eight Canadian universities have policies that require minimum workplace standards for manufacturers and suppliers of university-licensed merchandise.

During a joint session with the Fair Trade Forum (a concurrent, independent workshop) presenter Marybeth Schmutz of Rutgers University pointed out that codes of conduct are not enough. "Objective monitoring is necessary to back up the codes," she said.

According to Brand-Aid

organizer, Kyle Winters, director of marketing programs at U of T, reaching consensus was not difficult. "We've made a strong commitment to work together to find a monitoring solution that works for all of us," he said. "We will exercise strength in numbers."

In the spirit of working together, delegates also agreed to hold future meetings in conjunction with the Canadian Council for the Advancement of Education and the National College Bookstore Association. "Canadian Universities would assert greater strength by working as a coalition to establish a comprehensive monitoring strategy," said Professor Dara O'Rourke of the Massachusetts Institute of Technology, the keynote speaker.

Since Brand-Aid, Winters has been invited to discuss the workshop and its findings with labour and union leaders from across the country. In February he will speak at the annual conference of the International Collegiate Licensing Association to share best practices on branding and monitoring with other institutions in the U.S. and around the world.

Access, Excellence Focus of Throne Speech

THE UNIVERSITY OF TORONTO welcomes the federal government's priorities on access to universities and excellence in university research announced in last week's speech from the throne in Ottawa, according to President Robert Birgeneau.

"We are delighted that the throne speech highlights access, research and a focus on producing excellent graduates," said Birgeneau. "This is a position we have been advocating to ensure that young people across Canada receive the best possible education."

The university welcomes the government's reaffirmation on working with universities on the issue of the indirect costs of research (such as lighting, heat, insurance, etc.) and bringing university discoveries to the

marketplace. "We look forward to working with the government on these initiatives," Birgeneau said.

U of T is also pleased to see that the throne speech confirms the government's commitment to increase funding to the federal granting councils. In addition, the speech calls for a strengthening of government science, an undertaking in which all of Canada's research universities can assist.

The speech, read by Governor General Adrienne Clarkson in Parliament, mentioned the importance the government places on reforming Canada's health care system and on ratifying the Kyoto Protocol, a United Nations proposal on climate change that calls for significant reductions in greenhouse gas emissions, by year's end.

INSIDE

THE SINGER AND THE SONG
Investigating the music of medieval troubadours. Page 5

SYSTEM OVERLOAD
A high school student shares his angst. Commentary. Page 9



IN BRIEF



HILDYARD TO OVERSEE IMPLEMENTATION OF DISABILITIES ACT

PROFESSOR ANGELA HILDYARD, VICE-PRESIDENT (HUMAN RESOURCES), HAS BEEN appointed campus co-ordinator of the implementation of the Ontarians with Disabilities Act. Passed by the provincial government Dec. 14, the act aims to improve opportunities for people with disabilities, including learning and physical, mental impairment or a range of other disabilities, to participate in the life of the province. "We look forward to working with members of the community to find ways to identify, remove and prevent barriers," said Hildyard, whose appointment was announced at Business Board Sept. 30. She will work with university staff to set up a number of committees to begin implementation. Under the act, universities and colleges must prepare and make public annual accessibility plans addressing the identification, removal and prevention of barriers to people with disabilities in their bylaws, policies, programs, practices and services. According to the province, more than 1.9 million Ontarians have disabilities.

UNIVERSITY PROVIDES INPUT ON INNOVATION AGENDA

U OF T HELPED ORGANIZE ONE OF A SERIES OF REGIONAL SUMMITS BEING HELD across the country to give business, academic and community leaders an opportunity to contribute to the federal government's innovation strategy. Discussions focused on four key themes: knowledge creation and commercialization; innovation policy and regulatory climate; skills and learning; and strengthening community capacity. More than 300 participants discussed local and regional business productivity and spin-off issues as well as innovation at the community level while proposing solutions to a number of challenges. "If we are going to improve our competitive position, we need all regions and all sectors of our economy to identify actions that remove barriers to innovation and push Canada towards a common goal of being one of the most innovative countries in the world," said Industry Minister Allan Rock. The regional meetings will culminate in an action plan to be presented at the national Innovation Summit in Toronto next month.

PROSPECTIVE STUDENTS FLOCK TO CAMPUS

DISCOVERY DAY BROUGHT THOUSANDS OF VISITORS TO THE ST. GEORGE campus Oct. 5, as high school students and their families were given a chance to explore the university. Students gathered information on programs and colleges and extracurricular activities such as sports and clubs, attended mini-lectures and went on campus and building tours. U of T at Mississauga and U of T at Scarborough will hold their Discovery Days on Sunday, Oct. 20 and Saturday, Nov. 2, respectively.

University of Toronto Police will be hosting its annual safety week.

The week consists of community oriented events from **Oct. 21 to 25** to promote safety within the campus community. Information sessions and demonstrations will be held on topics like self-defence, bicycle safety, personal and workplace safety and other community programs. We will be kicking off the event with a free pancake breakfast for all community members with all donations being donated to local charities. So come and join us on **Tuesday, October 22, 2002 at Sid Smith Hall, 100 St. George Street.** For more information go to www.utoronto.ca/police.

THE BULLETIN

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AWARDS & HONOURS

FACULTY OF ARTS & SCIENCE

PROFESSOR EMERITUS PAUL GRENDLER OF HISTORY HAS BEEN elected a member of the American Philosophical Society. Founded by Benjamin Franklin, it is the oldest learned society in the U.S. devoted to the advancement of scientific and scholarly inquiry. Election to the society honours extraordinary accomplishment in all fields; currently there are just over 700 resident members and about 140 foreign members.

FACULTY OF MEDICINE

PROFESSOR CHARLES BOONE OF THE BANTING & BEST Department of Medical Research is this year's winner of the National Cancer Institute of Canada William E. Rawls Prize, sponsored by the Canadian Cancer Society. The prize recognizes a young investigator whose work has led to important advances in cancer control within the past decade; Boone has made remarkable contributions to the understanding of the basic cell biological processes relevant to cancer.

PROFESSOR JOHN BRADLEY OF ANESTHESIA WAS THE WINNER of the 2001-2002 W. T. Aikins Award for excellence in undergraduate teaching in the course/program development and co-ordination category while Professor William Chapman of laboratory medicine and pathobiology won the award in individual teaching

performance. The W.T. Aikins Awards are the faculty's most prestigious awards for commitment to and excellence in undergraduate medical education.

PROFESSOR YVES TALBOT OF FAMILY AND COMMUNITY medicine was elected president of the International Society of Equity & Health for a two-year term effective June 2002. Founded four years ago, the society promotes equity in health and health services internationally through research, education, publication and communication.

FACULTY OF PHARMACY

PROFESSOR SANDY PANG HAS BEEN SELECTED TO RECEIVE the Research Achievement Award in pharmacokinetics, pharmacodynamics and drug metabolism of the American Association for Pharmaceutical Scientists. Honoured for her outstanding contribution to basic pharmaceutical research, Pang will receive the award, at the annual meeting in Toronto in November.



City Salutes Best and Brightest

By Mary Alice Thring

U OF T FACULTY, ASSOCIATES AND friends were among the 77 recipients recognized for excellence in their fields and contributions to life in the city at the Salute to the City Awards gala Oct. 2.

Recognized for their significant contributions to medicine and research were Professors Alan Hudson of surgery, Kay Lie of obstetrics and gynecology, Jean Marmoreo of family and community medicine, David Naylor, dean of medicine, Christopher Paige of immunology and medical biophysics, Peter St. George-Hyslop, director of the Centre for

Research in Neurodegenerative Diseases, and Charles Tator of surgery.

University Professors Michael Bliss of history and Janice Stein, director of the Munk Centre for International Studies, were honoured with Professor Thomas Homer-Dixon, director of the Centre for the Study of Peace and Conflict, for their contributions to education.

Cited for community service and generosity in improving the quality of life in the city were Judy Matthews, initiator of the St. George Street revitalization, Bob Rae, Governing Council member and former premier of Ontario,

and U of T benefactor Joseph Rotman. Also, William Thorsell, a senior fellow of Massey College, was among those honoured in the field of visual and performing arts for enriching Toronto's artistic and cultural vitality.

Sponsored by Cadillac Fairview, the recipients were selected by a 79-member advisory committee from members of Toronto's performing and visual arts, business, community service, design, education, health and medicine, literature and sports communities. Cadillac Fairview donated \$1,000 on behalf of each honouree to a not-for-profit organization of their choice.

The Festival of Lanterns is an Eastern tradition that celebrates the community, pays homage to the past and launches hopes for the future.



streamline

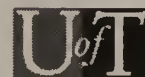
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Labour Negotiations Gear Up

By Jane Stirling

WITH THE ADVENT OF AUTUMN and a return to the busy life of a university campus comes the serious business of labour negotiations.

The administration, at any one time during the year, is in negotiations with one of its 21 bargaining units or employee associations that represent groups ranging from professors and business officers to carpenters and stage employees, says Brian Marshall, director of human resources. During the summer months labour talks often slow down but when school begins in the fall, bargaining gears up in earnest.

This year, the administration will be negotiating contract agreements with six of its unions or employee associations — two of which represent the interests of more than 6,000 U of T employees. The university has slightly more than 10,200 employees.

The administration and U of T Faculty Association (which represents about 2,300 faculty and librarians) will meet with mediator-arbitrator Martin Teplitsky Oct. 7 and Oct. 31. Both sides,

who have been meeting since late spring, have presented their proposals for a one-year contract. "We're always willing to meet with the mediator while there's a chance we will reach an agreement," said Professor Angela Hildyard, vice-president (human resources). "We are committed to addressing the faculty association's concerns and reaching a consensus."

The administration's proposal includes a two per cent across-the-board compensation increase (as of July 2002) plus normal progress-through-the-ranks, some pension benefits for retirees and the establishment of a mandatory long-term disability plan for faculty members and librarians with continuing appointments.

UTFA proposes, among other items, a 7.3 per cent across-the-board hike, pension augmentation for all retirees and increases in various dental, vision and health benefits. "The two sides seem to be quite far apart and it is in the hands of the mediator-arbitrator how we will deal with this," said Professor George Luste, president of the faculty association. Nevertheless, UTFA is prepared to make every

effort to mediate, he added.

In other contract talks, the university and the United Steelworkers of America, Local 1998, will meet with a provincially appointed conciliation officer Oct. 9 and more sessions are likely, Marshall said. The two sides, in contract negotiations since last spring, have met a number of times this fall with conciliator Jacqueline McVeigh. The Steelworkers, who represent about 4,000 administrative and technical staff, are seeking improvements in job security, wages, benefits and pension.

Bargaining is also under way (or will be shortly) with six other bargaining units on campus: the Canadian Union of Public Employees (CUPE), Local 3261, full- and part-time units (representing service workers, cleaners, groundskeepers, cafeteria workers and lab technicians, among others); CUPE, Local 1230, full- and part-time units (library technicians), the Ontario Public Service Employees Union (OPSEU), Local 519, (U of T police constables), and OPSEU, Local 578, (research officers at the Ontario Institute for Studies in Education of U of T).

Distinguished Scholars to Be Recognized at Convocation

By Janet Wong

A FORMER CANADIAN AMBASSADOR to the United States will be among four scholars receiving honorary degrees at fall convocation ceremonies next month.

Allan Gotlieb, who will receive an honorary doctor of laws Thursday, Nov. 21, is one of Canada's most distinguished public servants and a leading scholar in international law. A historian and advocate of the arts and human rights, Gotlieb's work as ambassador helped shape the North American Free Trade Agreement and give Canada a stronger international presence.

Economist Lawrence Klein was

awarded the 1980 Nobel Prize in economic science for his work in creating econometric models and their application to the analysis of economic fluctuations and economic policies. His work has created new disciplines and areas of research and has influenced economic policy in developing and developed countries. Klein will receive an honorary doctor of laws Tuesday, Nov. 19.

Scholar and anthropologist Jack Goody, who will receive an honorary doctor of laws Monday, Nov. 18, has greatly enhanced humanity's understanding of culture, cultural change and the cultural implications of literacy. His theories on the social impact of writing and

literacy have helped define a major area of anthropological study.

Patricia Benner, an internationally respected researcher and lecturer on health, stress and coping, skill acquisition and ethics, is renowned for her contributions to health education and the nursing profession. Her research has influenced nursing and the health care system in the U.S. and beyond and her pioneering theoretical work forms the basis of U of T's undergraduate nursing curriculum. Benner will receive an honorary doctor of science Wednesday, Nov. 20.

All convocations will be held at Convocation Hall, starting at 7 p.m.

"Green" Protein Protects Plants

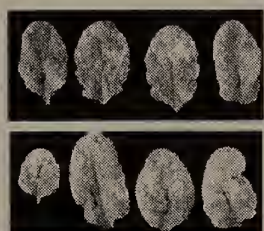
By Nicole Wahl

A U OF T BOTANIST HAS IDENTIFIED a protein that ultimately could provide chemical-free ways to protect crops from disease.

"Finding this protein, called DIR1, could help make it possible to genetically engineer crops that resist disease-causing organisms," said Professor Robin Cameron of botany, senior investigator of a study published in the Sept. 26 issue of *Nature*. "In the long run, having a better understanding of the whole process of disease resistance in plants could eliminate the need for fungicides or bactericides."

When disease strikes a plant, its immune system sends up a

warning "flare" telling different areas of the plant to resist infection. "This process is kind of like vaccination, only better," Cameron said. Once the signal-dependant on DIR1 is triggered by one disease, it gives the plant systemic acquired resistance to many other diseases. The exact role of DIR1 in the signal process is not yet clear, she said.



Top: normal wild plants; below: DIR1 mutant.

Cameron, along with colleagues at the Salk Institute in La Jolla, Calif., the John Innes Centre in Norwich, U.K., and the Noble Foundation in Ardmore, Okla., studied a mutant strain of weed with abnormal DIR1 that does not develop the resistance when exposed to a certain bacterial disease. "Our studies indicate that the normal protein, DIR1, is required to either make or move the warning signal around the plant," she said.

The study was funded by the Noble Foundation, Agritope, the Natural Sciences and Engineering Research Council of Canada, the Canada Foundation for Innovation and the U.K. Biotechnology and Biological Sciences Research Council.

CURIOSITIES



MOOSE CROSSING

By MICHAEL RYNOR

AT THIS RATE U OF T MAY BE ON ITS WAY TO HAVING ITS OWN HERD OF moose — sculptures that is. Unveiled Oct. 1, Mooseconstrue is the second moose sculpture to adorn the St. George campus through the generosity of well-known Canadian sculptor (and fine art alumnus) Charles Pachter. Made of corten steel, Mooseconstrue is a companion piece to an earlier donation by Pachter entitled Moosedemeanour, which graces the courtyard of Graduate House. Mooseconstrue, on the other hand, can be seen on a grassy knoll at the corner of Harbord and St. George.

Rifle Range to Reopen for Gun Clubs

By Jane Stirling

THE HART HOUSE RIFLE RANGE WILL reopen next month for gun club members, following the installation of a security system and lead containment for the walls, says Warden Margaret Hancock.

At its meeting Sept. 26, Hart House's board of stewards recommended the range be reopened, after a one-year closure, for members of the U of T Rifle Association and Hart House Revolver Club. (Members of the archery club have continued to use the range for their activities.) The board approved spending \$20,000 to install a security system connected to campus police to alert them of unauthorized activity on the range. The walls of the firing range will also be painted to encapsulate and neutralize lead dust emitted by the firing of bullets.

Last November, Hancock suspended the activities of the two gun clubs following concerns about the accountability of their executives and range officers. Some of the clubs' policies and procedures, including gun safety,

appointment of officers and a 50 per cent student ratio, were not being followed, she said. As a result, the board of stewards set four conditions upon which a reopening would hinge: replacement of all existing club executive and range officials with new members, revisions to policy and procedures manuals, lead containment for range walls and security improvements for the range.

"I think that the conditions that were set for the reopening were reasonable and necessary," Hancock said. "I'm comfortable that they've been met and are transparent."

However, the issue of the relevance of maintaining a firing range at U of T — raised by some members of the community when the range was closed to gun club members last November — was not debated. "The issue was raised but the board decided it would not debate the merits of this at this time." In 1991 a presidential review committee examining all programs at Hart House recommended the stewards consider reallocating the gun clubs' space to other purposes.

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THREE WISE MEN



HENRY FEATHER

FOR LAW STUDENTS, LEARNING TO be articulate under pressure in a courtroom can be challenging — but the stakes get higher when they must appear before three all-stars of the Canadian judicial system.

That's what four third-year law students discovered when they participated in the Faculty of Law's

annual Grand Moot Sept. 24.

The event plays out like a courtroom appeal — students present legal arguments before three members of the Canadian judiciary who volunteer to sit as judges for the event. This year, the presence of Supreme Court justices (left to right) John Major, Frank Iacobucci and Ian Binnie

had a profound effect on student mooters.

"It was quite a thrill in a lot of ways," said David Patacirk. "In the normal course of our careers, most of us will be lucky if we ever stand before the judges of the Supreme Court, and those of us who do likely won't be doing so for a decade or two."



Monday, Oct 21, 2002 7pm

Isabel Bader Theatre

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from the Local to the Global

Janice Stein

University Professor

Department of Political Science

Faculty of Arts and Science



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www.artsandscience.utoronto.ca

The University Professor Lecture Series is presented by the Global Knowledge Foundation, and sponsored by the Faculty of Arts and Science and the Eldenwood Foundation.



the 2003 Awards of EXCELLENCE

UNIVERSITY OF TORONTO



Applications are now being accepted for the

NORTHROP FRYE AWARDS

The University of Toronto Alumni Association is pleased once again to join the provost in sponsoring the Northrop Frye Awards.

One individual prize (\$2,000) will be awarded to a faculty member who demonstrates innovative and exemplary ways of linking teaching and research.

One divisional prize (\$6,000) will be awarded to a faculty, college, school or department for extraordinary curriculum innovation aimed at strengthening the link between teaching and research.

DEADLINE FOR APPLICATIONS: MONDAY, DECEMBER 2, 2002, 5 P.M.

For further information or nomination forms, please contact your college registrar or the Division of University Advancement, J. Robert S. Prichard Alumni House, 21 King's College Circle, 3rd Floor Tel: (416) 978-6536 or e-mail linda.wells@utoronto.ca

You can download nomination forms at:
www.alumni.utoronto.ca/events/awards/awards.htm

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2002

Sunday 20 October at 3 p.m.

Transgenic plants and the environment—the GMO debate hots up

Spencer C.H. Barrett

Dept. of Botany, University of Toronto

Sunday 27 October at 3 p.m.

The truth about Cinderella

Margo Wilson and Martin Daly

Dept. of Psychology, McMaster University

Sunday 3 November at 3 p.m.

Waste not, want not: extracting value from wastewater

David M. Bagley

Dept. of Civil Engineering, University of Toronto

Sunday 10 November at 3 p.m.

Climate change: where on earth are we going?

Lawrence A. Mysak

Dept. of Atmospheric & Oceanic Sciences, McGill University

Sunday 17 November at 3 p.m.

The revolutionary concept of continuous passive motion of joints for preventing some forms of arthritis

Robert B. Salter

University Prof. Emeritus Uof T and Hospital for Sick Children

Sunday 24 November at 3 p.m.

Cosmos versus canvas: tensions between art and science in astronomy images

Jayanne English

Dept. of Physics and Astronomy, University of Manitoba

Sunday 1 December — lecture cancelled

Sunday 8 December at 3 p.m. (for young people 7-12+)
Finding science

Russell Zeid
Ontario Science Centre

Innis College

The University of Toronto's Cinema Studies Program (at Innis College) and the Department of English invite applications for a tenure-stream appointment at the rank of Assistant Professor. The successful candidate will teach film courses at undergraduate, introductory and advanced levels in the Innis College Cinema Studies Program and at the graduate level in the Department of English. As well the successful candidate will be expected to be involved in supervising individual students, pursuing scholarship and participating in the affairs of the College and the Department. In their course work and dissertation candidates must exhibit evidence of strong research in film. A record of teaching experience in cinema studies is also required. A PhD in Film or English (film stream) preferred. Salary to be commensurate with qualifications and experience. A letter of application including CV should be sent to **Frank Cunningham, Principal, Innis College, 2 Sussex Ave., Toronto, Ontario M5S 1J5** as should three letters of reference. Review of applications will begin October 25. The deadline for applications is November 30, 2002. The expected starting date for the position is July 1, 2003. Canadian citizens and permanent residents will be considered first for this position. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups and others who may contribute to the further diversification of ideas. More information on the University of Toronto, Innis College and the Department of English can be found on the University's web site: <http://www.utoronto.ca>



MELODY MYSTERY

Researcher pursues original sounds of medieval music

By MICHAH RYNOR

ALTHOUGH MEDIEVAL MUSIC IS STILL HEARD IN one form or another on radio stations around the world and evoked in recent Hollywood films such as *Black Knight* and *xXx*, no one really knows what it's supposed to sound like.

That's because so much musical information has been lost in the mists of time. But Professor John Haines of the Faculty of Music and the Centre for Medieval Studies wants to change that. He has donned his detective cap and spent the last few years studying how people have interpreted troubadour songs since they were first written in the late 13th century in an attempt to put the pieces together again.

"I've focused on how the music of the troubadours and trouvères, the lyric poets of 12th- and 13th-century France, was interpreted." But Haines admits he has his work cut out for him. "We don't know what instruments were used, at what point they would play, the rhythm, the pitches or how long the songs lasted. What people have had to do is fill in the blanks with the 250 surviving troubadour melodies."



Haines believes that over the centuries different influences have played an important role in how these songs have been interpreted. For example, one tendency has been to imagine these melodies in an Arabic style — even though they originated in southern France — or to sing them with a lilting, waltz-like rhythm.

The results of all this detective work will be in his forthcoming book *Eight Centuries of the Troubadours and Trouvères: The Changing Identity of Medieval Music*, funded by the National Endowment for the Humanities, l'Institut Français de Washington as well as a Deutscher Akademischer Austauschdienst grant.

Among the numerous people interviewed for the book are members of the Massilia Sound System rap group from Marseilles, France, whose members sing in Occitan, the language of the original troubadours.

"There is a great public fascination with the Middle Ages and people are concerned about the accuracy of this music," says Haines. "But I don't think we'll ever come up with a definitive answer on how it actually sounded."

Mini Med-School Opens to Public

By Jessica Whiteside

ROBYN MCARTHUR IS HEADING TO Rmedical school this fall but instead of settling in for a four-year slog, she'll be done in six weeks.

McArthur is one of 500 people who started classes last week in U of T's first-ever mini-med school, a six-part lecture series on health science topics aimed at the general public. "I thought it would be a great opportunity to see what this type of education would be like," she said.

While participants will not leave with a medical degree, they will become better informed health consumers as they learn the basic scientific concepts behind the practice of modern medicine and cutting-edge health research. The classes — on topics ranging from anatomy to genetics to population health — are designed to entertain as well as inform. A discussion on cancer, for example, will be followed by a dramatic performance of *No Big Deal?*, a play about prostate cancer. Other sessions will include a tour of an anatomy lab and a chance to try out laboratory equipment.

The lectures draw on U of T's wealth of health information and leading researchers to set participants on the path to what course director Michael Evans calls "self-education leading to self-awareness and finally to

self-management" of their own health care. He expects some registrants will be thinking of attending real medical school in the future but he'd like to see a broad spectrum of people experience the program.

"What I'd most like to see is a broad reflection of the community — young people, old people, middle-aged, different ethnic backgrounds," said Evans, an assistant professor of family and community medicine and principal investigator of the knowledge translation program. "I see this as a beginning of a dialogue. The more varied the brains and bodies at the table, the better solutions we'll come up with."

Meanwhile, McArthur, a 21-year-old Humber College student training to be a physiotherapy assistant, said she sees a lot about medical research in the media and hopes the lectures will help her put that coverage into context. In fact, that's one of the program's major goals.

"If you open any magazine now, whether it's the *New Yorker*, *Shape* or *Chatelaine*, a good percentage of it has to do with health," Evans said. "As part of the course, I'll be taking 10 or 15 minutes of each class to review the headlines of that week. Hopefully, it will help people become better lifelong learners, to put the headlines into perspective."

The mini-med school program, an initiative of the Faculty of

Medicine's office of continuing education and the knowledge translation program, is the first of its kind in Toronto but similar programs have run across the United States since the early 1990s. Last year Montreal's McGill University became the first in Canada to offer a mini-med school program.

Study Offers Top 10 Biotechnologies to Improve Global Health

By Janet Wong

U OF T BIOETHICISTS HAVE IDENTIFIED 10 biotechnologies that offer the greatest promise of improving global health within a decade, particularly in the world's poorer countries.

"Current inequities in global health present major ethical challenges to the international community," said Professor Peter Singer, director of Joint Centre for Bioethics, program leader of the Canadian program on genomics and global health and co-author of a recent study in *Nature Genetics*. "Genomics is described as a powerful new wave of health-related life sciences energized by the human genome project. This study ranks the most promising tools being created by harnessing

this knowledge and offering unprecedented opportunities to address the growing health divide between rich and poor countries."

The study represents the collective opinion of 28 international scientists and experts in genome-related technology and global health issues. The "top 10 list" includes technologies to tackle problems ranging from infectious and non-communicable diseases to malnutrition and environmental contamination.

Suggestions include hand-held testing devices to conduct rapid, low-cost checks for infectious diseases such as HIV and malaria, genetically engineered vaccines that are cheaper and safer than current vaccines, alternatives to needle injections such as inhalable drugs and powdered

vaccines, genetically modified bacteria and plants that can clean up the environment and genetically modified staple foods such as rice and potatoes with enhanced nutritional value.

"The top 10 list debunks the myth that biotechnology cannot provide tools for disease prevention and health promotion. Vaccines, for example, are arguably the best form of prevention of infectious disease available," said Professor Abdallah Daar, co-author of the report and director of the program in applied ethics and biotechnology. "Just as we promote the use of bednets for malaria, we must also develop new malaria drugs based on knowledge of the malaria parasite's genome and genetic modification of the mosquito that carries malaria."

AT LARGE



ACADEMIC FREEDOM UNDER FIRE

THE ACADEMIC FREEDOM DEBATE HAS TAKEN A NEW TWIST AT THE UNIVERSITY OF Utah where some academics say they cannot engage in an open debate knowing that a colleague or student might be carrying a concealed weapon — which is permissible under state law. Despite the university's argument that the presence of concealed weapons would have a "chilling effect" on campus and class debate, Utah's attorney general said the law allows people with permits to carry concealed weapons and that the university is not exempt from that law. The vast majority of U.S. colleges do not allow firearms on campus.

CALLS FOR DIVESTMENT INCREASE

CALLS FOR POST-SECONDARY INSTITUTIONS TO REMOVE THEIR INVESTMENTS FROM companies that do substantial business with Israel are increasing on some U.S. campuses. Petitions for divestment have circulated at more than 50 schools including Cornell, California, Texas and Michigan. Supporters hope the idea will take off the way it did in the 1980s with South Africa. Meanwhile, a petition opposing divestment was signed by 5,800 people at Harvard and MIT.

KENNEWICK MAN NOT RESTING IN PEACE

IN A RULING THAT IS EXPECTED TO SET A PRECEDENT OVER WHO HAS CONTROL OF archeological discoveries, a U.S. judge has granted scientists access to study a 9,300-year-old skeleton known as Kennewick Man. The court decision overrules an earlier decision by government officials to give the skeleton to American Indian groups for reburial. The judge dismissed arguments that the skeleton had a cultural affiliation with the American Indian groups seeking repatriation. The scientists now have 45 days to present the government with a proposal of study.

HE'S GOT LEGS

PROFESSOR EVAN DOBELLE, PRESIDENT OF THE UNIVERSITY OF HAWAII SYSTEM, has agreed to be one of seven judges for this year's Miss America pageant. Originally dismissing the idea as "pretty gimmicky," he changed his mind after a chat with last year's winner, Angela Perez Baraquo, a University of Hawaii graduate who argued that the contest was a huge source of scholarship money for young women. Dobelle now hopes to be able to enact change from within by attempting to focus attention on issues such as eating disorders.

SOURCES: *The Chronicle of Higher Education*, *TIME*

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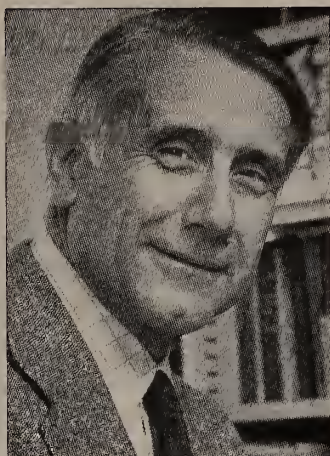
IN MEMORIAM

Hare Was Leader in Early Climate Change, Nuclear Safety

UNIVERSITY PROFESSOR EMERITUS Kenneth Hare, an internationally respected environmental scientist and leader in nuclear safety and early climate change, died Sept. 3. He was 83 years old.

Born in Wyllye, Wiltshire, in 1919, Hare qualified for admission to King's College, University of London, by the age of 16, graduating with his BSc in 1939. He spent a year as an assistant lecturer at the University of Manchester before serving as a meteorologist with the U.K. Air Ministry. After the war he accepted an appointment as an assistant professor at McGill University and started his PhD at the Université de Montréal, focusing on his interest in high latitude climatology. He received his degree in 1950 and promotions at McGill followed in rapid succession, culminating in his appointment as dean of arts and science, a position he held from 1962 to 1964.

In 1964 Hare returned to the University of London and was appointed master of Birkbeck College from 1966 to 1968, when he accepted the position of president of the University of British Columbia, a post he resigned the following year. "North American universities were at this time in the grip of the radical student movement," Professor John Sipe of physics, a long-time friend and colleague, recalled. "Recognizing that he had neither the will nor the temperament to deal with the



political climate at UBC, he ended his tenure after a year."

Hare came to the University of Toronto in 1969 as a professor of geography and physics and was named University Professor in 1976. He served as director of the Institute for Environmental Studies from 1974 until he was appointed the 10th provost of Trinity College in 1979.

"He often said that Trinity was his best job of all," Sipe said. "Trinity was a milieu in which his urbanity, humour and cultural interests were valued."

A dedicated and engaging teacher, Hare continued to lecture and was guest speaker at various group and organization meetings. "He had a singular ability to make whatever he was saying sound interesting and sound important," said Professor Danny Harvey of geography, who studied for his PhD under Hare. "He had such a captivating

style you couldn't help but be interested in what he was saying, no matter what the subject was."

Hare continued his scientific research throughout his career and published widely. He also maintained a solid record of public service, undertaking numerous scientific inquiries for the Royal Society of Canada and serving as co-chair of the National Academy of Sciences/Royal Society of Canada committee on acid precipitation, among other commitments.

Immediately after his retirement from Trinity in 1986, Hare was appointed to head a commission to investigate the safety of Ontario's nuclear reactors after concerns were raised by the Chernobyl accident. This was not the first time nor the last that he was consulted on the nuclear industry in Canada. For example, the 1977 Canadian government green paper on nuclear waste management, commonly known as the Hare Report, confirmed that deep geological deposition was the best means of disposal of spent nuclear fuel and his 1997 report on the Atomic Energy of Canada Limited's Environmental Due Diligence set the standard for the industry.

"Kenneth Hare led an extraordinarily full life," Sipe said. "We are much the richer for the part of this life he shared with us."

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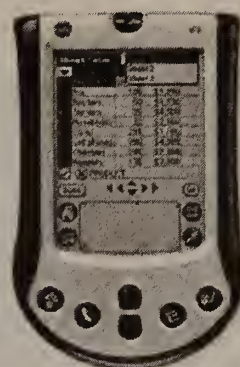
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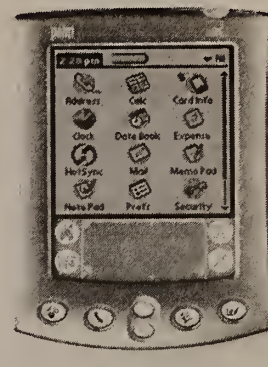
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PROFILE

COMMUNITY COLLEGE

Trinity's first woman provost wants to build on success of her predecessors

By MICHAEL RYNOR

UNDER THE CLOAK OF DARKNESS, UNDER MARGARET MacMillan's bedroom window at the Trinity College provost's lodge, a group of rowdy frosh is singing "Trins, Trins, Trins, your daddies got you in

This kind of playfulness — and loud — inter-collegiate teasing reminds MacMillan of her own student days at Trinity in the 1960s. But while some taunting lyrics may never change, other things at Trinity definitely have because this former student trying to get some sleep is now the provost of the college — the first woman to hold the position in its 175-year history.

"I never thought I'd be coming back," she says. "You leave a place and think, Well that's it, I'm moving on. And anyway, in my day women didn't become provosts."

But when MacMillan was told her name had been suggested by a number of people at U of T for the five-year position she figured why not? After spending the last 25 years teaching history at Ryerson University she felt ready for a change.

She also thought she could make a difference at the college. "I want Trinity to be a place that's even more intellectually exciting than it already is, with a stronger academic core," she says. "I don't want to make radical changes because I don't think my predecessors did anything wrong. They've made Trinity the place it is and I want to continue moving in that direction."

But, she maintains, college is more than just a place where you go to class, eat and sleep. "You've got to have a sense of real excitement, of being part of a community where you're going to have a great deal of fun while having the tremendous privilege of leisure — leisure that enables you to explore who you are."

And while she has been away, sort of, for many years —



she has taught a history course for Trinity's international relations program since 1996 and maintained a common room membership where she often eats her lunch — she finds that Trinity hasn't really changed that much.

"It's always been a slightly quirky place but at Trinity we've always liked that. We encourage the dramatic and the people who are a bit out of the ordinary. You get these extraordinary students here who regularly combine things like excelling in biochemistry while being equally talented

in cello playing. Just recently a student brought me a copy of his just published children's book and it's not even in his field of study — it was simply something he wanted to do."

Born in Toronto, MacMillan moved to England at an early age which explains a slight accent "that's stuck somewhere in the mid-Atlantic." It was 1946 and her father, a doctor in the navy, had gone to England to study for a year. She would return to England at age 15 to complete high school before returning to her family in Canada.

As a history student at Trinity, she had "the best education," she says. "I got involved in everything. Making costumes for Trinity's dramatic society, taking part in the U of T debating team and playing hockey for St. Hilda's are among my favourite memories."

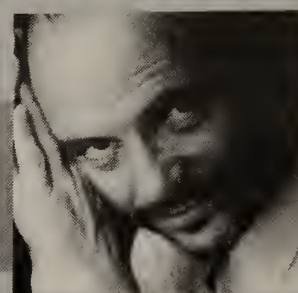
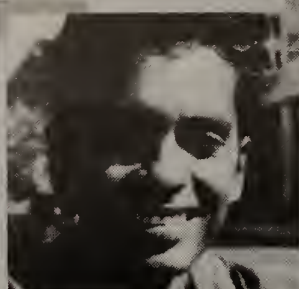
Today, when her busy schedule allows it, she goes to the opera, enjoys skiing, tennis, hiking and travelling as much as she can while taking an active role in the lives of her 12 nieces and nephews.

As well as being newly responsible for 1,400 students, MacMillan is on the boards of the Canadian Institute of International Affairs (the premiere foreign policy body in Canada) and the Atlantic Council of Canada (an institution specifically interested with Europe and NATO).

She has also written two books, *Women of the Raj* (1988) and *Peacemakers: The Paris Conference of 1919 and Its Attempt to End War* (2001). The latter has won three major prizes: the Duff Cooper Prize, PEN's Hessel-Tiltman Prize for history and the Samuel Johnson Prize for best non-fiction book published in Britain.

Asked if it's somewhat melancholy to return after all these years away, she replies that while her memories of Trinity couldn't be longer, she isn't tied to the past. "The young girl that I was in 1966 seems so far away it's like another person almost. My younger self seems so remote now."

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COMMENTARY

DOUBLE TROUBLE

Prospective student overwhelmed by world of double cohort

By CHRISTOPHER RICHARDSON

ALL I KNOW IS THAT I FEEL LIKE AN ANT WHO'S become lost and out of place in an overwhelmingly gigantic ant hill. I, like many other ants in the Greater Toronto Area, ventured out from hiding under text books and commuted to the Metro Convention Centre for the Ontario Universities Fair Sept. 28 in hopes of finding answers to the many questions I have about the double cohort.

A packed assembly of future students and friends filled the Convention Centre for three days, each of us attempting to get information pertaining to our chosen fields of study. Luckily, under each large-print university sign was a group of professors, students and volunteers waiting eagerly to answer questions and hand out pamphlets.

The big question on the minds of current high school students, however, is what do we do? Ryerson University claims to have spent over \$75 million updating computers and improving engineering and graphic communications buildings. U of T says a total of 2,250 additional students will be admitted into first-year programs next year while McMaster tells us a new student centre, a 350-seat lecture hall and a student dining hall are under way for September 2003. But the question that was on all of our minds was, What do we as students do to prepare for it?

As we made our way through the lines of people — all possible doctors, lawyers and teachers of the future — a lost look hung over our faces. OK, so there's going to be more facilities, a few more crowded classrooms and a whole lot of competition. We, as students, have grown up with these challenges throughout our educational upbringing, that's not what's bothering us. What we're wondering is, What do we



have to do to ensure that in four or five years we can hang our hats up thinking we've made it, that we are now members of the intellectual elite as productive, contributing and, most important, degree-holding members of society?

As my girlfriend, Oana Morar, and I sat down in her Scarborough home to explain to her parents what we learned at the university fair, we realized that we really

hadn't learned much at all. With a stack of university brochures the size of three thick phonebooks, Oana and I are left bewildered.

"There's a minimum 83 per cent average to get into life sciences at U of T at Scarborough," Oana says to her mother. "It's all there in the book."

"What about your extracurricular activities?" her mother asks.

"I don't know. They said yes, but they said averages are important. I'm not sure." She trails off. The truth is that we've been told so much in the years leading up to this educational conundrum known as the double cohort that all of our information is starting to contradict itself.

Guidance counsellors, parents, teachers, principals, university representatives — all of these different people have been feeding us so many different views that it has become nearly impossible for us to have a realistic interpretation of our own. All I know is that in January when I, a Grade 12 student, have to face the competition of other 12th graders as well as the OAC group for acceptance into university, marks will either be very important or they won't. The universities will either have enough room for us all or they won't. Extracurricular activities will either greatly increase my chances of getting accepted or

they won't. I guess I'll just have to wait until spring before I know anything for sure. Until then, as I prepare myself, I realize that having an article published in *The Bulletin* to slip into my portfolio can't hurt my chances.

Christopher Richardson is a high school student at David and Mary Thomson Collegiate Institute in Scarborough.

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CONSUMER RELATIONS

By MARY ANN GRATTON

SO YOU WANT TO BUY A VOLKSWAGEN BEETLE, YOUR favourite, but your spouse wants a Toyota Corolla because it is good value for the money. You may be ideal subjects for Professor Pankaj Aggarwal's research.

Aggarwal, an assistant professor of marketing at U of T at Scarborough and the Rotman School of Management, studies relationships between consumers and brands. When consumers form a "communal" relationship with a brand, that relationship can involve mutual care and concern. But when they form an "exchange" relationship it is quid pro quo — the buyer spends money and expects a certain value in return.

"Brands that attract passionate buyers (like Nike, Harley Davidson and Coca-Cola) have many more communal relationships where people treat the brand like a friend, expecting it to take care of their needs," he says. "In the exchange relationship, people often say they've paid X amount of money for a product and here's what they expect in return."

Knowing how many consumers have communal versus exchange relationships can be valuable marketing information. "I'm not studying specific brands but rather how and why consumers' responses to the same market stimuli are different, depending upon the type of brand relationship," says the former advertising executive from India. "If you have a bad experience with a brand and the vendor offers 20 cents off your next purchase, that works for those with an exchange relationship. But those with a communal relationship don't want 20 cents off — they want an apology."

Aggarwal came to Toronto last year because of the university's reputation and for the opportunity to live in this city. "The research environment is great and my colleagues are open, inquisitive and challenging — some of the best minds anywhere in the world are here."

HEARING GRADE

By JESSICA WHITESIDE

PROFESSOR KATHY PICHORA-FULLER OF PSYCHOLOGY AT U of T at Mississauga is looking forward to the day buildings and technologies come equipped with the auditory equivalent of wheelchair ramps.

"We've arrived in an era in which people need to make advances on what I call hearing accessibility. For hearing, acoustics is a frontier," says Pichora-Fuller, who studies how the brain processes sound.

"I can replay in my mind some of the conversations I've had with hard-of-hearing people about how their life has changed because they couldn't take their promotion at work or they couldn't do something in their life," she says. "I would be happy if I felt that the research resulted in making life more liveable for people with hearing loss and just people in general as listeners."

Raising awareness about the need to make physical environments and technologies (phones, computers, etc.) accessible to those with hearing impairment is one of her goals as a teacher of the psychology of communication in UTM's undergraduate communication, culture and information technology (CCIT) program.

A look ahead to the future of communications research drew Pichora-Fuller to UTM from her previous posting as director of the Institute for Hearing Accessibility Research at the University of British Columbia. She is now part of a team that will establish a centre for research in biological communications systems, both animal and human, within the new CCIT building.

"UTM is a hub which unites people who are doing similar research across the country," she says, noting the team will collaborate with researchers at Queen's, Sheridan College and UBC. "There really isn't any other place in the world I can think of where there's this much talent, this many resources and this much opportunity to get on with this topic."



NEW BEGINNINGS

By MICHAH RYNOR

"I WONDERED WHEN I CAME BACK IF I'D FEEL 23 again," says Professor Darlene Johnston of law. As a student here in the 1980s, Johnston used to enter the law buildings with a nervousness in the pit of her stomach. "I was new to the city and you know you're moving into a high performance environment when you get into law school."

Luckily for Johnston — the only First Nations professor in the Faculty of Law and one of only three in the province — there were no butterflies when she returned to her alma mater. "It helps that the dean is a former classmate of mine," she says with a laugh.

And while she admits she's keeping a low profile on campus while she settles in, there's no doubt that Johnston, who hails from the Chippewa of Nawash tribe of Cape Croker, Ont., will be wearing many hats now that she's here.

Along with teaching courses in Aboriginal Peoples and the law with a comparative look at First Nations, French and British law traditions in the Great Lakes area during the 17th century, she's also aboriginal adviser for the largest enrolment of First Nation law students (30) in Ontario.

"I think it's important to have aboriginal faculty," she says, "because I can work on curriculum that I'm uniquely suited to do as well as provide counselling and support to students so they can cope with the sometimes alienating things that happen to aboriginal students."

Another important reason for returning ("I was never drawn to Bay Street") is the fact that her first love is research. "This is the only profession I know where you can set your own research agenda," she says. "There is an amazing amount of freedom here and I can test my research theories in the classroom which helps clarify my thinking."

W RECRUITS

expected to hire over 1,000 new faculty
demand for higher education and to replace
to teach the children of the baby boomers.
were hired in a wide range of disciplines to
three campuses. Some are returning to this
leaving other universities to join the critical
leathers are calling Canada home for the first
home of the university's recent brain gain.



GLOBAL BODIES

By JANET WONG

ASK DR. PRABHAT JHA WHAT LED HIM BACK TO CANADA and the research environment at the University of Toronto and St. Michael's Hospital, he'll say it was "just right."

"There was the right set of characters with David Naylor [dean of medicine] and Arthur Slutsky [vice-president (research), St. Michael's Hospital] wanting to exercise leadership in getting a world-class program in global health going," says Jha. "I think there's a real commitment from the Canadian Institutes of Health Research and from the university to make Toronto a global player. And it was the right time for me personally. If ever my two daughters learned to skate, I'd be an unforgiven Canadian if they had to do it outside of Canada."

For the past eight years, Jha has been researching HIV/AIDS, the effects of tobacco use and ways to improve the health of the poor, first with the World Bank then with the World Health Organization in Geneva. He did internships and post-doctoral work at U of T and returns as founding director of the Centre for Global Health Research at St. Mike's and Canada Research Chair in health and development at U of T.

Fundamentally, the world is different because of the body of knowledge that's been generated by researchers on the determinants of disease, prevention strategies and health, Jha says. "But the poorest people in the world have not reaped the full benefits of that knowledge so there's an enormous need to extend what we know. Also, we need to do research to figure out meaningful ways to improve their lives and reduce poverty. And I think Canada is well positioned politically, morally and institutionally to have that impact."

While his focus will be on research projects, Jha plans to work with the Department of Public Health Sciences to develop a full curriculum on global health.

TEACHING TEACHERS

By SUE TOYE

WHEN KAREN MUNDY FINISHED HER MASTER'S degree at the Ontario Institute for Studies in Education of the University of Toronto (OISE/UT), little did she know she would travel halfway around the world before returning to her alma mater as associate professor.

"I wanted to make the world a better place through educational development and OISE has the expertise," she says. "That is why I came to OISE in the first place. My goal now is to make sure OISE retains that capacity."

Mundy is considered one of the rising stars in international and comparative education and will join dozens of scholars at OISE/UT dedicated to the discipline. Her research examines how international organizations such as the International Monetary Fund influence domestic education policy. Her work has been widely cited in the field of international and comparative education and has received academic accolades honouring her achievements. Her upcoming book on educational reform in Africa is due out next month.

The seeds of her academic career were planted when Mundy taught at a secondary school in Zimbabwe, Africa, for three years beginning in 1985. This experience made her realize how much the Canadian government lacked in domestic educational expertise and how misguided their efforts were in Africa. "I wanted to go back to Canada to change that through development policies."

After a six-year stint as assistant professor at Stanford University, Mundy moved to Toronto with her family this fall. She hopes her research will affect change on educational policies on a global level. "I came back because I thought I could influence Canadian policy, not so much how we deal with our own educational system but how we interface at an international level on educational issues."



GROUNDBREAKING AGENDA

By NICOLLE WAHL

PAUL YOUNG IS A MAN ON A MISSION — TO CHANGE mining's coal shaft image to a multifaceted engineering science with implications both hundreds of metres below ground and thousands of kilometres into space.

On July 1 the British-born Young became the inaugural director of the Lassonde Mining Institute. Launched in March 2001, the institute is named for mining finance expert Pierre Lassonde, one of Canada's leading gold analysts, who in 1996 donated \$5 million to establish the Lassonde mineral engineering program.

Young's research uses a combination of geophysics and seismic monitoring systems — including sensitive listening devices installed by countries searching for violations of the Comprehensive Nuclear Test Ban Treaty — to monitor mining-induced rock fractures as small as a pencil lead.

In 1984 he established a geophysics and rock fractures laboratory at Queen's University in Kingston, Ont., and later studied excavation for underground disposal of radioactive waste for Atomic Energy of Canada Limited. "Fractures [around] these excavation sites can be pathways for radioactive waste," he says.

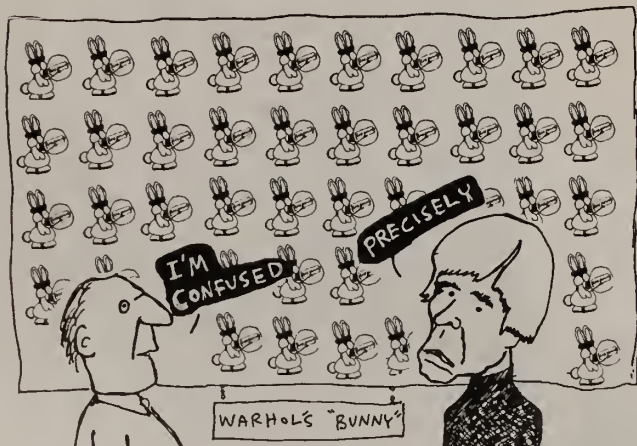
In 1993 Young returned to the U.K. and from 1999 to 2002 he led the British Geophysical Association. But Young, who has also assumed the inaugural Keck Chair in Seismology and Rock Mechanics in the Department of Civil Engineering, didn't hesitate to return to Canada.

He aims to encourage research in remote sensing of mineral deposits using satellites, which could play a crucial role in extraterrestrial exploration and the establishment of permanent human colonies on Mars. "The impact of satellites and planetary geophysics is an exciting area for the future," he says. "I feel very privileged and honoured to be offered this position," says Young, noting that Pierre Lassonde wanted the institute both to be successful and make a difference. "We're a hundred per cent agreed on that."

PHOTOS BY DAVID STREET

Consumer Confusion, Navigating by Sound

MIKE ANDRECHUK



Ad repetition may confuse consumers

Everybody remembers the pink bunny promoting batteries that keep going and going but is it Energizer or Duracell?

Contrary to popular belief in marketing, repetition in advertising does not always improve consumers' memory for brand claims, says a U of T study.

"Consumers often do not absorb the information from ads, so repeating the ads doesn't necessarily lead to better memory of that product and its slogan," said Sharmistha Law, a marketing professor at U of T at Scarborough and the Rotman School of Management. "Instead, it can cause consumers to confuse a brand with its competitors."

In her study, Law examined students' ability to remember slogans and match slogans to products. On computer screens, two groups of students viewed 20 ads with real product names but fictitious slogans. Ten ads appeared once; another 10 appeared three times. One group saw the entire product name and slogan on screen; the second group initially saw only the first letter of the product — for example, the "U" in UPS — followed later by the entire product name and slogan. (The purpose of the second group was to mentally engage the students to enhance their memories.)

Law found that ad repetition was actually a disadvantage for students in the first group — 50 per cent incorrectly matched products

and slogans of those ads viewed three times compared with 38 per cent of incorrect matches for those ads viewed only once. In the second group, however, only 35 per cent made incorrect matches for ads viewed repeatedly, suggesting viewers are better able to remember product names if they are mentally engaged with the material.

The study, published in the *Journal of Marketing Research*, was funded by the Social Sciences and Humanities Research Council of Canada.

SUE TOYE

Yeast research targets drug-resistance battle

Evolution of a much-maligned yeast shows that drug resistance is a predictable outcome of exposure to drugs, say U of T botanists.

Microbes that survive drug treatment often become drug resistant. Researchers in the labs of Professors Jim Anderson and Linda Kohn of botany have determined how this happens by studying the yeast *Candida albicans* and its genetic changes when exposed to drugs. "Ultimately, our findings could lead to the development of companion drugs that target these sets of genes, delaying or preventing the evolution of resistance to the therapeutic drug," said doctoral student Leah

Cowen, the study's lead author.

Researchers grew over 330 generations of the yeast — a common inhabitant of healthy humans that causes thrush, diaper rash and infections in women as well as life-threatening infections in immuno-compromised individuals — in the presence of the widely prescribed anti-fungal drug fluconazole. Drug resistance increased as the researchers had predicted. While they saw expected changes to the molecular pumps, which remove a variety of drugs from cells, they also noted changes in hundreds of genes. More surprisingly, they found the altered genes displayed three distinct patterns — a finding replicated in patient samples. Recognizing these patterns will make it easier for scientists to target drug therapy, Cowen said.

Funding for the research, published in *Proceedings of the National Academy of Sciences*, was provided by the Natural Sciences and Engineering Research Council of Canada. The drug fluconazole was supplied by Pfizer Inc.

LANNA CRUCEFIX

Method for sound navigation developed

Drawing on the expertise of the blind, a University of Toronto professor is "teaching" electronic devices how to navigate using

surrounding sounds.

"The goal was to build a system that mimics the acoustic navigation abilities of blind people," said Professor Parham Aarabi of electrical and computer engineering. He has developed a method by which a device fitted with as few as two microphones can combine the information from sounds around it to locate and orient itself in the same way that an animal uses its two ears. This method achieves the same result as radar but is more adaptable to different technologies, he added.

Eventually, the technology could be used in robotics or personal communication devices such as cell phones or hand-held computers. For example, Aarabi said, cell phones that combine the signals from many microphones could filter out background noise and transmit only the clear voice of the cell phone user.

Aarabi said that communications devices using this technology could become available to consumers within five to 10 years. The study, funded by the Canada Research Chairs program and the Canada Foundation for Innovation, will appear in an upcoming issue of *IEEE Transactions on Systems, Man and Cybernetics, Part B*.

NICOLLE WAHL

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NET NEWS



Tuning Into Governing Council

OVER THE PAST YEAR, SEATS FOR GOVERNING COUNCIL MEETINGS HAVE become such a hot commodity that a new reserved-seating ticketing system (first-come, first-served) was implemented last spring for anyone not a member of Governing Council. Members of the executive committee felt ticketing would be the fairest way to ensure that the broadest number of people would have the opportunity to attend meetings since there are only 66 guest seats, of which a maximum of 30 can be reserved in advance.

Recognizing that seating is limited and to accommodate interested attendees from UTSC, UTM and other off-campus sites, Governing Council recently began to broadcast live RealPlayer audio files of its meetings via the World Wide Web. Launched Sept. 19, the initiative was made technically possible by the installation of a new audio system during recent renovations to the council chamber. The RealPlayer streaming audio player plug-in must be downloaded in order to hear the audio files. The software is free and already available on public-access computers maintained by the Scotiabank Information Commons.

The audio casts will not be archived since the meeting minutes are deemed the official records and are accessible to the public on the Governing Council Web site. To log on to live RealPlayer audio broadcasts, go to www.utoronto.ca/govcncl/.

AUDREY FONG



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Deadline for applications: Monday, December 2, 2002, 5 p.m.

For further information or nomination forms, please contact your college registrar or Louise China in the Division of University Advancement, J. Robert S. Prichard Alumni House, 21 King's College Circle, 3rd Floor Tel: (416) 978-4258 or e-mail louise.china@utoronto.ca

You can download nomination forms at:
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THE GAIRDNER FOUNDATION

THE GAIRDNER FOUNDATION INTERNATIONAL AWARDS

Gairdner Lectures — Minds That Matter 2002 International Genome Symposium

Thursday, October 24, 2002 9:00 a.m. to 4:00 p.m.

MacLeod Auditorium, Medical Science Building

Open Seating

9:00 a.m.	WELCOME AND OPENING Dr. John H. Dirks , President The Gairdner Foundation	Director, Genome Project The Hospital for Sick Children Toronto, CA	1:40 p.m.	Introduction: Dr. Marco Marra Co-Director (Scientific), Genome Sequencing Centre Vancouver, BC, CA
	Dr. Martin Godbout President, Genome Canada	Speaker: Dr. Philip Green Gairdner Award 2002 Professor, Computer Science Department, University of Washington, Seattle, WA, USA		Speaker: Dr. Robert Waterston Gairdner Award 2002 James S. McDonnell, Professor and Head Washington University School of Medicine, St. Louis, MD, USA
	Dr. David Naylor Dean, Faculty of Medicine, University of Toronto	<i>"Genome data analysis"</i>		<i>"The Human Genome Project and Beyond"</i>
9:10 a.m.	Chair: Dr. Peter Lewis , Vice-Dean Faculty of Medicine, University of Toronto, Toronto, CA	11:40 a.m.		
		Introduction: Dr. Christopher Paige Vice President, Research University Health Network Toronto, CA	2:20 p.m.	Introduction: Dr. Lap-Chee Tsui Gairdner Award 1990 Vice-Chancellor Hong Kong University, Hong Kong
	Introduction: Dr. Brenda Andrews Chair, Department of Medical Genetics & Microbiology University of Toronto Toronto, CA	Speaker: Dr. Michael Waterman Gairdner Award 2002 Professor of Mathematics, Biological Science, University of Southern California, Los Angeles, CA, USA		Speaker: Dr. Craig Venter Gairdner Award 2002 Director, The Institute for Genome Research Rockville, MD, USA
	Speaker: Dr. Maynard Olson Gairdner Award 2002 Professor of Genome Sciences & Medicine (Division of Medical Genetics), UW Genome Center Seattle, WA, USA	<i>"A Computational Theme in Genomics"</i>		<i>"The Sequencing of the Human Genome"</i>
	<i>"The transition from the gene to the genome in applications of recombi- nant-DNA technology"</i>	12:20 p.m.		
		LUNCH - Dean's Conference Room (By Invitation Only)	3:00 p.m.	
10:00 a.m.	Introduction: Dr. Jean Morissette Endocrinologie Moléculaire Centre de recherche du CHUL Sainte-Foy, Quebec CA	1:00 p.m.		Introduction: Dr. Tom Hudson , Director Montreal Genome Centre McGill University Health Centre Montreal, CA
		Chair: Dr. Robert Phillips , CEO Ontario Cancer Research Network Toronto, CA Co-Chair, Medical Review Panel, The Gairdner Foundation		Speaker: Dr. Eric Lander Gairdner Award 2002 Director, Whitehead Institute/MIT Center for Genome Research Cambridge, MA, USA
	Speaker: Dr. Jean Weissenbach Gairdner Award 2002 Director, Genoscope - CNS Paris, France <i>"Building the Genome Infrastructure"</i>	Introduction: Dr. Roderick McInnes Director, CIHR Senior Scientist, The Hospital for Sick Children, Toronto, CA		<i>"Genomic Information: Driving A Revolution in Biomedicine"</i>
10:40 a.m.	BREAK	Speaker: Dr. John Sulston Gairdner Award 1991 & 2002 Lab Wellcome Trust Sanger Institute Cambridge, UK	3:40 p.m.	CONCLUSION Dr. John H. Dirks
11:00 a.m.		<i>"The Common Thread"</i>		
	Introduction: Dr. Stephen W. Scherer			

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Gairdner Lectures — Minds That Matter

2002 International Genome Symposium

Friday, October 25, 2002 9:00 a.m. to 4:00 p.m.

MacLeod Auditorium, Medical Science Building

Open Seating

9:00 a.m.	WELCOME AND OPENING Dr. John H. Dirks , President The Gairdner Foundation Professor Robert Birgeneau President, University of Toronto Dr. Henry Friesen Chair, Genome Canada	Speaker: Dr. Joseph Goldstein Gairdner Award 1981 Nobel Laureate 1985 University of Texas, Southwestern Medical Center, Dallas, TX, USA <i>"Genomics & Metabolism: No Longer the Odd Couple"</i>	Speaker: Dr. Anthony Pawson Gairdner Award 1994 Senior Scientist, Samuel Lunenfeld Research Institute Mount Sinai Hospital Toronto, CA <i>"The Genome at Work - Organizing the Human Cell Through Protein Interactions"</i>
9:15 a.m.	Chair: Dr. Victor A. McKusick Gairdner Award 1977 University Professor of Medical Genetics, McKusick-Nathans Institute of Genetic Medicine Johns Hopkins Hospital Baltimore, MD, USA	12:00 p.m. LUNCH Dean's Conference Room (By Invitation Only)	
		1:00 p.m. Chair: Dr. Charles R. Scriver Gairdner Award 1979 Alva Professor Human Genetics McGill University, Montreal Children's Hospital Research Institute, Montreal, CA	3:15 p.m. Introduction: Dr. Cal Stiller Chair & CEO, Canadian Medical Discoveries Fund Inc. London, CA
	Introduction: Dr. Ronald Worton Gairdner Award 1989 CEO & Scientific Director Ottawa Hospital Research Institute, Ottawa, CA	Introduction: Dr. David Schlessinger Chief, Laboratory of Genetics, Triad Center, Baltimore, MD, USA	Speaker: Dr. Bartha Knoppers Chair, International Ethics Committee Human Genome Organization Professor of Law, University of Montreal <i>"Of Populations, DNA Banking and Ethics"</i>
	Speaker: Dr. James Watson Gairdner Award 2002 Nobel Laureate 1962 President, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA <i>"DNA and Ethics"</i>	Speaker: Dr. Francis Collins Gairdner Award 1990 & 2002 Director, Human Genome Research Institute, National Institute of Health Bethesda, MD, USA <i>"Genomics, Medicine and Society"</i>	4:00 p.m. CONCLUSION Dr. John H. Dirks
10:10 a.m.	BREAK		
10:30 a.m.	Introduction: Dr. Alan Bernstein President, Canadian Institutes of Health Research, Ottawa, CA	1:45 p.m. Introduction: Dr. Matthew Spence President & CEO, Alberta Heritage Foundation for Medical Research, Edmonton, CA	The Gairdner Public Lecture DR. ERIC S. LANDER The Promise & Perils of the Human Genome Friday, October 25, 2002 8:00 p.m. - 9:30 p.m. Convocation Hall, University of Toronto Tickets \$15.00 Ticketmaster 416-870-89000 www.ticketmaster.ca
	Speaker: Dr. Sydney Brenner Gairdner Award 1978 & 1991 The Salk Institute, San Diego, CA, USA <i>"Cell Map: A Project to Understand Function"</i>	Speaker: Dr. Paul Nurse Gairdner Award 1992 Nobel Laureate 2001 Imperial Cancer Research Fund London, UK <i>"The Fission Yeast Genome"</i>	<i>We are grateful to our sponsors :</i> GENOME CANADA; CANADIAN INSTITUTES FOR HEALTH RESEARCH; UNIVERSITY OF TORONTO; SUN MYCROSYSTEMS INC; UNIVERSITY HEALTH NETWORK; AVENTIS PASTEUR; BORDEN LADNER GÉRAVIS; ONTARIO GENOMICS INSTITUTE; ONTARIO MINISTRY OF ENTERPRISE, OPPORTUNITY AND INNOVATION; THE HOSPITAL FOR SICK CHILDREN; ALTANA PHARMA; THE GLOBE AND MAIL; GLAXOSMITHKLINE; ALBERTA CANCER BOARD AND THE ALBERTA CANCER FOUNDATION; DISCOVERY CHANNEL; WNED
11:15 a.m.	Introduction: Dr. Barry Posner Professor of Medicine McGill University, Quebec, CA	2:30 p.m. Introduction: Dr. Janet Rossant Senior Investigator	

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Bathurst & Dundas. 1-bedroom basement apartment for rent. Includes eat-in kitchen, bathroom and separate entrance. All utilities included. \$550 per month. Available now. 416-603-4090.

Avenue Road & Dupont. Fully furnished & equipped upper duplex. 2 levels, 2 bedrooms; walkout to deck and balcony; 6 appliances (ensuite washer/dryer). \$2,300 per month includes cable, CAC & utilities. 416-924-8872 or marybill@sympatico.ca

Bloor and Dovercourt area. Home for rent. Furnished. January to end of May 2003. Beautiful garden, three bedrooms and study, all appliances, utilities. \$2,200 per month all inclusive. Contact 416-538-9178 or jact@sympatico.ca

St. George & College. Apartment for rent. 2-bedroom, hi-level, in a Victorian house, large balcony, \$1,600/month, utilities extra. Available November 1. Call Grace, 416-595-0026.

U of T Erindale 10 minutes. Available immediately, separate entrance. 2-bedroom + large living room/eat-in kitchen/washer/dryer. Nicely furnished. \$1,400 month includes heat, water, electricity, linens, parking. Non-smokers. 905-272-7199 or email moby498@hotmail.com

Yonge & Eglinton. Charming three-bedroom house for rent. (Quiet Castlefield Avenue.) Owner out of town. Possible sublet for academic year or longer. Backyard, fireplace. Steps to park, pool, etc. 416-884-9092.

Coach house at Bloor and St. George for long-term lease. Furnishings included, 750 sq. ft., loft with 18' ceiling, air conditioning, gas fireplace, pine floors, skylights. Suitable for single professional or couple, available immediately. 416-399-7004; 416-977-2315.

Riverdale sabbatical rental. Charming furnished 3-bedroom house. Family neighbourhood. Steps to subway, shops, parks, excellent schools, laundry, piano, spacious garden. No smoking/pets. \$2,200 plus utilities. December/January to June (flexible). 416-406-4649. william.robins@utoronto.ca

St Clair /Christie. Beautiful apartment. Newly renovated. 1 minute from TTC. Washer and dryer. Dishwasher. Private washroom. Partially furnished. No smoking. No pets. Heating included. Hydro extra. \$775/month. November to May 2003. Call Daniel, 416-652-6170.

Shared

Dufferin & Dundas. Shared spacious 2-bedroom apartment. 1 unfurnished room available, utilities included, washer/dryer,

dishwasher, non-smoker, negotiable lease, street parking, near streetcar, 15 minutes to campus by streetcar, close to Little Italy. \$725. Call Stephane, 416-537-5248.

College/Bathurst. Share furnished 2-bedroom main floor Victorian house. Living/dining room; appliances; laundry. Near market; U of T; Little Italy. Bedroom furnishings optional. Ideal for graduate student or visiting faculty. \$750/month. No pets or smokers please. 416-323-3240.

Yonge & Bloor. Large condo for rent. Non-smoking, no pets. Asking \$1,200 per month all inclusive. Available October 1, 2002. Negotiable. Call 416-802-0656.

Exchange

We would like to exchange our Annex family house with similar house in France, between approximately January and May 2003. Please contact 416-533-2152.

Bed & Breakfast

\$27/\$36/\$50 per night single/double/apartment, Annex, 600 metres to Robarts, 14-night minimum, free private phone line, voice mail, VCR. No breakfast but share new kitchen, free laundry, free cable Internet. Sorry, no smoking or pets. Quiet and civilized, run by academic couple. <http://www.BAndNoB.com> or 73231.16@compuserve.com or 416-200-4037.

Annex Guesthouse. Walk to Robarts Library. Mid-week single special \$50 per night, three-night minimum stay. Private suite from \$100 per night. 416-588-0560; e-mail annexguesthouse@canada.com or visit us at annexguesthouse.com

Property for Sale

House for sale College & Spadina. \$299,900. Charming reno'd century cottage with hardwood floors, high ceilings, big windows, 2-car parking and lovely yard. Why rent when you can own? Chestnut Park R.E. Ltd. Dee McGee/Stefani Thomson 416-925-9191.

Condo for sale. Bay & Elm. \$219,000. One-bedroom, one bath, balcony, deeded parking, 656 sq. ft. Maintenance \$308/month. Great facilities, laundry facilities, indoor pool, fitness room, party room. Walk to U of T and hospitals. Call Grace Buie, 416-595-0026.

HEALTH SERVICES

REGISTERED MASSAGE THERAPY. For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 170 St. George Street (at Bloor). For appointment call Mindy Hsu, B.A., R.M.T. 416-944-1312.



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CLASSIFIED ADVERTISEMENTS

PERSONAL COUNSELLING in a caring, confidential environment. U of T extended health benefits provide excellent coverage. Evening appointments available. Dr. Ellen Greenberg, Registered Psychologist, Medical Arts Building, 170 St. George Street. 416-944-3799.

DR. DVORA TRACHTENBERG & DR. GINA FISHER, PSYCHOLOGISTS. Individual/couple/marital psychotherapy. Help for depression/anxiety/loss/stress; work/family/relationships/communication problems; sexual orientation/women's issues. U of T health benefits apply. Medical Arts Building (St. George and Bloor). 416-961-8962.

PSYCHOANALYTIC PSYCHOTHERAPY with a registered psychologist. Dr. June Higgins, Medical Arts Building, 170 St. George Street (Bloor and St. George). 416-928-3640.

Psychologist providing individual and couple therapy. Work stress, anxiety, depression, personal and relationship concerns. U of T health plan covers cost. Dr. Sarah Maddocks, Registered Psychologist, 114 Maitland Street Wellesley & Jarvis). 416-972-1935, ext. 3321.

Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty health care benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. E-mail Dr.Neil.Pilkington@primus.ca

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor).

Evelyn Sommers, Ph.D., Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge and Bloor. 416-413-1098 or e-mail for information package, eks@passport.ca

Dr. Carol Musselman, Registered Psychologist. Psychotherapy for depression, anxiety, trauma and other mental health needs, relationship problems, issues related to gender, sexual orientation, disability. Day and evening appointments. Covered by extended health plans. 489 College Street, Suite 206. 416-568-1100, cmusselman@oise.utoronto.ca

Full range of psychological services offered by Dr. K.P. Simmons. Call 416-920-5303 if troubled by trauma, anxiety, depression, phobia or relationship issues. Location: 170 St. George Street, Suite 409 — Medical Arts Building.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley and Jarvis). 416-469-6317.

Dr. Cindy Wahler, Registered Psychologist, Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended health care plan covers psychological services. 416-961-0899 cwahler@sympatico.ca

MASSAGE THERAPY at PacificWellness.ca (80 Bloor St. West #1100 at Bay). Professional elegant facilities. Female/male registered therapists (RMTs). Direct insurance billing available for U of T staff. 416-929-6958.

Free confidential counselling is available to employees and their families through the university's Employee Assistance Program, provided by Family

Services EAP. Call any time, day or night at 1-800-668-9920. Additional information is available at www.utoronto.ca/hrhome/eap.htm

Beth Kandau-Halpern (homeopath). Gentle, non-toxic, effective treatment for wide range of chronic and acute disorders. Safe for children, pregnant, elderly and other sensitive patients. Individualized prescribing. Experienced practitioner classically trained in U.K. 416-964-8467.

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Typing services. English grad with typing business. Experienced typist — essay, term paper, thesis and all general typing needs including transcription. Fast, accurate and confidential. Excellent references. Angie Davies. Phone, 416-698-9362. Fax, 416-698-9628.

University College Book Sale. East and West Halls, 15 King's College circle. Queen's Park subway. Great bargains, new and gently used books, wide choice. Students free with ID. Doors open Friday, October 18, noon

to 8 p.m.; Saturday, October 19, 10 a.m. to 5 p.m.; Sunday, October 20, Monday, October 21 and Tuesday, October 22, noon to 8 p.m. Proceeds support College Library and students.

A classified ad costs \$18.50 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number counts as one word, but the components of your address will each be counted as a word, e-mail addresses count as two words.

A cheque or money order payable to **University of Toronto** must accompany your ad. Ads must be submitted in writing, 10 days before *The Bulletin* publication date, to **Mavic Ignacio-Palanca, Department of Public Affairs, 21 King's College Circle, Toronto, Ontario M5S 3J3.**

Ads will not be accepted over the phone. To receive a tearsheet and/or receipt please include a stamped self-addressed envelope. For more information please call (416) 978-2106 or e-mail mavic.palanca@utoronto.ca.

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GET IN HERE

Tuesday, October 8
5 Buck Lunch, 11:30am-2pm in the Great Hall.

Thursday, October 17
Art Committee Lecture Series "Behind the Scenes" - Michael Parke-Taylor, AGO Associate Curator of European Art, presents an illustrated lecture, "The Road to Paradise: Behind the Art Gallery of Ontario's Exhibition Gauguin to Matisse from Russia's Hermitage Museum", 6:30pm in the Hart House Music Room. 416.978.8398

Friday, October 18
Jazz at Oscar's - World/jazz with Zamcab, 9pm in the Arbor Room. Licensed. No cover.
ART 416.978.8398

The Justina M. Barnicke Gallery - "Present Address", installation by Stephen Cruise. Opens Oct. 10 and runs to Nov. 7. Gallery hours: Mon. to Fri. 11am to 7pm; Sat. and Sun. 1pm to 4pm. Meet the artist Thurs. Oct. 10 from 5-7pm.

The Arbor Room - Robert Lee, Paintings. Runs Oct. 7-Nov. 16.

HART HOUSE THEATRE Box Office: 416.978.8668
www.harthousetheatre.ca
Marlene Smith's Musical Theatre Gala: What's a nice lady like her doing in a business like this? Fri. Oct. 18 at 8pm.
This evening of musical theatre is a benefit in support of Hart House Theatre celebrating the career of Marlene Smith.

Marty Hayes and Dennis Cahill in Concert. Presented by Colourmark Productions. Sat. Oct. 19 at 8pm. Tickets \$27/\$22 students & seniors.

Graduate Committee Dinner Series - Six Wednesday evenings of exciting speakers in an informal setting 6pm reception for 6:30pm dinner in the Great Hall. Members \$42, U of T students \$26. Call Membership Services Office at 416.978.2447 for information.

Hart House Farm Cider 'n' Song - Sat. Oct. 26. Enjoy a day of making cider, flying kites, hiking in fall leaves, taking a sauna, playing baseball and soccer. Includes lunch and dinner. \$21 with bus; \$18 without. Advance ticket sales begin Tue. Oct. 1.

Gallery Club Wine Seminar Series at 8:00 p.m.: November 14 - Shiraz/Syrah; November 21 - Cabernets Merlots; November 28 - Champagne to celebrate U of T's 175th. Package tickets only for members \$80, U of T students \$60. Call Membership Services Office at 416.978.2447 to enquire about the "Port & Stilton" ticket combo.

Athletics - Spots are still available in our squash and golf lessons starting in November. Register in person at the Membership Services Office. Bring your T-card.

Hall Porters' 416.978.2452 www.utoronto.ca/harthouse

HART HOUSE

UNIVERSITY OF TORONTO

Advisory Search Committee for a Vice-Provost, Planning and Budget

I am seeking your assistance in searching for a candidate for the position of Vice-Provost, Planning and Budget, effective July 1, 2003. I hope to make an appointment by the end of the first term. The appointment is an extremely important one to the effective functioning of the University. I will greatly appreciate your thoughtful help in identifying members of our community who would be excellent in this role.

Below you will find a description of the position and a call for nominations. Please do take a few minutes to think about who would be suitable and to forward your suggestions. I will also welcome expressions of personal interest in the position.

Also listed below is the membership of the Advisory Search Committee established to aid me in making this appointment.

Professor Shirley Neuman
Vice-President and Provost

POSITION DESCRIPTION

The Vice-Provost, Planning and Budget is a senior academic administrator reporting directly to the Vice-President and Provost. He or she will have responsibility for providing counsel and advice to the Provost on issues related to the Planning and Budget portfolio, including development of budgets and budget policy, for approving Campaign prospect proposals and Campaign donation agreements, providing budgetary and campaign information to Deans and providing leadership to the Planning and Budget Office. The Office provides institutional research support to the Provost and other Vice-Presidential portfolios, in particular, that of the Vice-President, Government and Institutional Relations. The activities of the Office include enrolment planning, monitoring and modelling; preparing tuition fee schedules for University Governance approval and modelling tuition income; producing long-range budget guidelines and projections; updating the guidelines and assumptions and producing the annual Budget Report; rolling out the budgets to Divisions; maintaining data on student financial aid; and participating in institutional data exchanges. The Vice-Provost, Planning Budget is an assessor to the Planning and Budget Committee and the Academic and Business Boards of Governing Council.

The Vice-Provost, Planning and Budget is a key member of the Provost's executive team. She or he will be expected to provide leadership and vision on high priority issues, such as enrolment plans, tuition fee schedules, long-range budget guidelines, budget reports, allocations from the special operating funds and the resource implications of new program offerings.

This is a particularly challenging and exciting time for this portfolio as the University embarks on a new academic planning cycle. The Vice-Provost, Planning and Budget must have strong analytical skills and demonstrated management abilities. The position is well suited to a creative, energetic and accomplished academic administrator.

If you have views about the position that you would like to relay to the Committee or if you would like to suggest names for the Advisory Committee to consider, please communicate these no later than **October 21st, 2002 to the secretary of the committee, Mary McGee, at 27 King's College Circle, Rm. 225 or by e-mail to m.mcgee@utoronto.ca.**

MEMBERSHIP OF ADVISORY SEARCH COMMITTEE:

Professor Shirley Neuman, Vice-President & Provost (Chair); Professor Carl Amrhein, Dean, Faculty of Arts and Science; Ms Sheila Brown, Controller and Director of Financial Services; Mr. Ken Burke, Chief Administrative Officer, OISE/UT; Mr. Christopher Collins, President, Graduate Students' Union; Professor David Cook, Principal, Victoria College; Professor Raymond Cummins, Department of Biology, University of Toronto at Mississauga and Chair, Academic Board; Mr. Martin England, Assistant Vice-Provost, Strategic Planning; Ms Ranjini Ghosh, President, Arts and Science Students' Union; Professor Paul Gooch, President, Victoria University; Professor Susan Horton, Chair, Division of Social Sciences, University of Toronto at Scarborough and Vice-Chair, Planning and Budget Committee; Mr. Josh Hunter, Student Member, Academic Board; Professor Brad Inwood, Chair, Department of Classics; Mr. Rocco Kusi-Achampong, President, Students' Administrative Council; Ms Catherine Lewis, Chief Administrative Officer, Faculty of Applied Science and Engineering; Ms Carol Moore, Chief Librarian, University of Toronto Library; Professor David Naylor, Dean, Faculty of Medicine; Professor Doug Reeve, Chair, Department of Chemical Engineering and Applied Chemistry; Ms Mary McGee, Assistant Provost, (Secretary)

WE VALUE YOUR OPINION

that's why the back page of *The Bulletin* is devoted to Forum, a place where thoughts, concerns and opinions of interest to colleagues across the university find expression. Original essays by members of the community are both welcomed and encouraged. Faculty, staff and students are invited to submit or discuss ideas with:

STEVEN DE SOUSA, EDITOR

The Bulletin 416-978-7016

steven.desousa@utoronto.ca

Look forward to hearing from you!

UNIVERSITY OF TORONTO BULLETIN — 17 — MONDAY, OCTOBER 7, 2002

EVENTS



LECTURES

Contemporary Approaches to Understanding Islam.

MONDAY, OCTOBER 7
Prof. Mohammad Shahrour, University of Damascus; World of Islam series. George Ignatieff Theatre, 15 Devonshire Place 6:30 p.m. Trinity College

Stretching Infrared Spectroscopy: Multidimensional Infrared Analogues of NMR Applied to Peptides, Protein and Liquids.

WEDNESDAY, OCTOBER 9
Prof. Robin Hochstrasser, University of Pennsylvania; first of three A.R. Gordon lectures. 158 Lash Miller Chemical Laboratories. 4 p.m. Chemistry

On Books and Other Toys

WEDNESDAY, OCTOBER 9
Jane Urquhart, internationally acclaimed novelist; 2002 Snider lecture. 2072 South Building, U of T at Mississauga. 8 p.m. Information: 905-569-4656.

Gyring and Gimbling in the Wabes: Trying to Make Sense of Single Biomolecular Fluorescence Fluctuations.

THURSDAY, OCTOBER 10
Prof. Robin Hochstrasser, University of Pennsylvania; second of three A.R. Gordon lectures. 158 Lash Miller Chemical Laboratories. 3 p.m. Chemistry

The Making and Audience of Gerald of Wales' *Speculum Ecclesie*.

THURSDAY, OCTOBER 10
Brian Golding, University of Southampton; 2002 Bertie Wilkinson lecture. Room 400, St. Michael's College, 121 St. Joseph St. 4:10 p.m. Medieval Studies

The Wounded Healer.

THURSDAY, OCTOBER 10
John Butler, Agora Group. Room 548, 246 Bloor St. W. 5:30 p.m. Social Work

Beating the Drum: Sensing Protein and Molecular Dynamics Through the Vibrations.

FRIDAY, OCTOBER 11
Prof. Robin Hochstrasser, University of Pennsylvania; final A.R. Gordon lecture. 380 Davenport Wing, Lash Miller Chemical Laboratories. 10 a.m. Chemistry

The Self as Narrator.

TUESDAY, OCTOBER 15
Prof. David Velleman, University of Michigan; Jerome Simon lectures in philosophy. 102 McLennan Physical Laboratories. 3 p.m. Philosophy

Insulin Signalling: The Inside Story.

TUESDAY, OCTOBER 15
Prof. Barry Posner, McGill University; John K. and Mary E. Davidson lecture. 103 FitzGerald Building. 4 p.m. Physiology

Why Are Some Tress and People Prettier Than Others? Is Beauty Simply in the Mind of the Beholder?

WEDNESDAY, OCTOBER 16
Prof. Em. Gordon Orans, University of Washington. Convocation Hall. 10 a.m. Botany and Zoology

Reading the Bible Again: Jewish Texts in Goldschmidt's Thought.

THURSDAY, OCTOBER 17
Prof. Robert Gibbs, philosophy; Hermann Levin Goldschmidt memorial lecture. 161 University College. 4 p.m. Jewish Studies, Germanic Languages & Literatures, Joint Initiative for German & European Studies and Foundation Dialogik

Life After Death: Platonic Hopes, Christian Fears.

THURSDAY, OCTOBER 17
Prof. Paul Gooch, philosophy. Room 400, Alumni Hall, St. Michael's College, 121 St. Joseph St. 7:30 p.m. Philosophy and Study of Religion

Producing American Literature in the 19th Century.

FRIDAY, OCTOBER 18
Prof. Michael Winship, University of Texas Lecture Theatre, Faculty of Information Studies, 140 St. George St. Toronto Centre for the Book, Information Studies and Study of the United States

Transgenic Plants and the Environment: The GMO Debate Hots Up.

SUNDAY, OCTOBER 20
Prof. Spencer Barrett, botany. Auditorium, Medical Sciences Building. 3 p.m. Royal Canadian Institute

Held to Account: Challenges of Governance From the Local to the Global.

MONDAY, OCTOBER 21
University Prof. Janice Stein, political science; University Professor lecture series. Isabel Bader Theatre, Victoria University, 93 Charles St. W. Global Knowledge Foundation, Arts & Science and Elderwood Foundation

COLLOQUIA

Amygdala Systems and the Representation of Value.

WEDNESDAY, OCTOBER 9
Prof. Peter Holland, Johns Hopkins University. 2102 Sidney Smith Hall. 4 p.m. Psychology

What Is Really Measured in the Mesoscopic Aharonov-Bohm Interferometer?

WEDNESDAY, OCTOBER 9
Prof. Amnon Aharony, Tel Aviv University. 118 McLennan Physical Laboratories. 4:10 p.m. Physics

Negative Refractive Index Metamaterials Constructed Using Periodically L-C Loaded Transmission Lines.

THURSDAY, OCTOBER 10
Prof. George Eleftheriades, electrical and computer engineering. 102 McLennan Physical Laboratories. 4:10 p.m. Physics

Just What Is the Connection Between Physics and Music?

THURSDAY, OCTOBER 17
Prof. George Gibson, University of Connecticut. 102 McLennan Physical Laboratories. 4:10 p.m. Physics

SEMINARS

Research Highlights in Edge Performance.

MONDAY, OCTOBER 7
Prof. Kelly Lockwood, Brock University. 307 Athletic Centre. 55 Harbord St. 4 p.m. Physical Education & Health

Derandomizing Polynomial Identity Tests Versus Proving Circuit Lower Bounds.

WEDNESDAY, OCTOBER 9
Prof. Valentin Kabanets, University of California at San Diego. 248 Galbraith Building. 3:10 p.m. Computer Science

The Voluntary Sector Discovered: Implications for Citizenship, Governance and the Study of Political Science.

FRIDAY, OCTOBER 11
Prof. Susan Phillips, Carleton University. 208N Munk Centre for International Studies. 2 to 4 p.m. Political Science

The Symbolism of Form in the Renaissance Mass.

FRIDAY, OCTOBER 11
Irina Guletsky, CRRS fellow. 205 Northrop Frye Hall, Victoria University. 3:15 p.m. Reformation & Renaissance Studies

Regulation of Dendrodendritic Synaptic Transmission in Olfactory Bulb by Dopamine and Non-Specification Currents.

FRIDAY, OCTOBER 11
Prof. Kerry Delaney, Simon Fraser University. 968 Mt. Sinai Hospital. 3:30 p.m. Samuel Lunenfeld Research Institute

Stem Cells: Scientific Potential, Ethical Controversy.

FRIDAY, OCTOBER 11
Panel discussion: Prof. Bridget Campion, St. Augustine's Seminary; Prof. Abdallah Daar, Joint Centre for Bioethics; Mary Jardine, Parkinson Foundation of Canada; Prof. Trudo Lemmens, Joint Centre for Bioethics; Prof. Janet Rossant, medical genetics and microbiology; moderator: Prof. Peter Singer, Joint Centre for Bioethics. George Ignatieff Theatre, 15 Devonshire Place. 5 to 7 p.m. Joint Centre for Bioethics and TVOntario, Big Ideas

Xenopus Gastrulation: The Analysis of a Complex Morphogenetic Process.

WEDNESDAY, OCTOBER 16
Prof. Rudolf Winklbauer, zoology. 968 Mt. Sinai Hospital. Noon. Samuel Lunenfeld Research Institute

Data Mining: The Art and Science of Obtaining Information From Data.

WEDNESDAY, OCTOBER 16
Saed Sayad, iSmartsoft Inc. 116 Wallberg Building. 12:30 p.m. Chemical Engineering & Applied Chemistry

Life After Stroke.

WEDNESDAY, OCTOBER 16
Panel of stroke survivors and caregivers. Auditorium, Main Floor, Toronto Rehabilitation Institute. 6 to 7:30 p.m. Toronto Rehabilitation Institute and Heart & Stroke Foundation of Ontario

Holding Nations Responsible.

THURSDAY, OCTOBER 17
Prof. David Miller, University of Oxford. 108N Munk Centre for International Studies. 2 to 4 p.m. Political Science

Women, Medicine and the Changing Landscape of Information About Hormone Replacement Therapy.

THURSDAY, OCTOBER 17
Prof. Elizabeth Watkins, Carnegie Mellon University; Hannah seminar in the history of medicine. Great Hall, 88 College St. 4 to 6 p.m. History of Medicine

Little Terrors: Children and the War on Social Reproduction in Contemporary New York City.

FRIDAY, OCTOBER 18
Prof. Cindi Katz, City University of New York. 208N Munk Centre for International Studies. 2 to 4 p.m. Study of the United States

Paolo Sarpi: History and the Intolerable.

FRIDAY, OCTOBER 18

Sheila Das, CRRS fellow. 205 Northrop Frye Hall, Victoria University. 3:15 p.m. Reformation & Renaissance Studies

The Shared Habitat.

FRIDAY, OCTOBER 18
A symposium on art/science collaborations; keynote speakers, Craig Holdrege, Nature Institute, N.Y., and William Irwin Thompson, cultural historian and author. Bahen Centre for Information Technology, 40 St. George St. 5:30 to 7:45 p.m. OISE/UT and York University

MEETINGS & CONFERENCES

Academic Board.

MONDAY, OCTOBER 7
Council Chamber, Simcoe Hall. 4:15 p.m.

New Scholarship in Book History and Print Culture.

FRIDAY, OCTOBER 11 AND SATURDAY, OCTOBER 12.

An interdisciplinary conference organized by graduate students in the book history and print culture program. Munk Centre for International Studies. Details: sarah.brouillette@utoronto.ca or bookhistory.fis.utoronto.ca/conference.

Planning & Budget Committee.

TUESDAY, OCTOBER 15
Council Chamber, Simcoe Hall. 5 p.m.



MUSIC

FACULTY OF MUSIC EDWARD JOHNSON BUILDING

Voice Student Performances
TUESDAY, OCTOBER 8
Featuring students in the voice performance class. Walter Hall. 12:10 p.m.

Wednesday Discovery.

WEDNESDAY, OCTOBER 9
The Viennese Waltz From Its Origin to the Present: Barry Salwin, piano. Walter Hall. 12:10 p.m.

WEDNESDAY, OCTOBER 16

Klezmer Music: Brian Katz, guitar; Martin van de Ven, clarinet. Walter Hall. 12:10 p.m.

Small Jazz Ensembles.

WEDNESDAY, OCTOBER 9 AND 16
Favourite standards and student arrangements and compositions. Walter Hall. 8:30 p.m.

Thursdays at Noon.

THURSDAY, OCTOBER 10
Scott St. John, violin, Lydia Wong, piano. Walter Hall. 12:10 p.m.

THURSDAY, OCTOBER 17

Faculty woodwind quintet. Walter Hall. 12:10 p.m.

Wind Ensemble.

FRIDAY, OCTOBER 11
Denise Grant, conductor. MacMillan Theatre. 8 p.m. Tickets \$12, students and seniors \$6.

Young Artist Recital.

TUESDAY, OCTOBER 15
Saemi Chang, soprano; Susan Black, mezzo; Stephen Erickson, tenor; Julien Patenaude, baritone; Bruce Ubukata, piano. Walter Hall. 8 p.m.

Concert Band

WEDNESDAY, OCTOBER 16

Jeffrey Renolds, conductor. MacMillan Theatre. 8 p.m. Tickets \$12, students and seniors \$6.

U of T Symphony Orchestra.

FRIDAY, OCTOBER 18
Raffi Armenian, conductor. MacMillan Theatre. 8 p.m. Tickets \$16, students and seniors \$8.

Voice Showcase.

TUESDAY, OCTOBER 22
Featuring young Canadian singers in voice studies. Walter Hall. 8 p.m.

VICTORIA COLLEGE

Choral Music on Campus — United in Song.

SATURDAY, OCTOBER 19
University Women's Chorus and Master Chorale; Robert Cooper conductor. Chapel. 8 p.m. Tickets \$12, students and seniors \$6.

PLAYS & READINGS

Robert Sward.

MONDAY, OCTOBER 7
Robert Sward reads from his new book *Heavenly Sex*. Library, Hart House. 7:30 p.m.

Toronto Readings by English Alumni/ae, Teachers & Students (TREATS).

WEDNESDAY, OCTOBER 9
Kildare Dobbs, to open a student reads from his or her creative work. 1017 Wilson Hall, 40 Willcocks St. 5 to 7 p.m. English

U of T Bookstore Series.

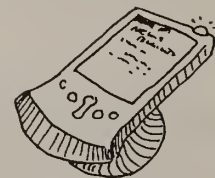
THURSDAY, OCTOBER 10
Boldly Going: Barbara Hodgson discusses her new book *No Place for a Lady: Tales of Adventurous Women Travellers* and Cassandra Pybus discusses her new book *The Woman Who Walked to Russia*. Library, Hart House. 7:30 p.m.

TUESDAY, OCTOBER 15

Gentle Ben: Charlie Russell discusses adventures described in *Grizzly Heart: Living Without Fear Among the Brown Bears of Kamchatka*; includes slide show. Music Room, Hart House. 7:30 p.m.

THURSDAY, OCTOBER 17

Weird Science: Amir Aczel discusses his latest book *Entanglement*. Library, Hart House. 7:30 p.m.



EXHIBITIONS

U OF T ART CENTRE On Paper.

TO NOVEMBER 9
Thirteen artists with a total of 96 works ranging from a 19th-century ink drawing by G.F. Watts to a grid-format wall work by Toronto artists Ed Pien; works on paper. Hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

U OF T AT MISSISSAUGA New Modular

TO OCTOBER 20
The everyday world is made up of modular clutter and artists James Carl, Brian Jungen, Nestor Kruger, An Te Liu and Damian Moppet make use of it in this exhibition. Blackwood Gallery. Gallery hours: Monday to Friday, noon to 5 p.m.; Sunday, 1 to 5 p.m.

U OF T AT SCARBOROUGH Stitch City.

TO OCTOBER 27
Anna Hunt, thread on canvas highlighting mid-20th century architectural icons. The Gallery. Gallery hours, Monday to Friday, 10 a.m. to 5 p.m.

EVENTS



MISCELLANY

Bullying: What Parents Can Do.

FRIDAY, OCTOBER 11

Workshop provides parents with information and practical strategies for dealing with bullying; session led by Teresa Neves, child and family clinician with the Peel Children's Centre. 123 Woodsworth College. Noon to 1:30 p.m. Information and registration: 416-978-0951 or family.care@utoronto.ca. Family Care Office

150th Anniversary Celebration Liturgy.

SUNDAY, OCTOBER 13

Celebrating University of St. Michael's College's 150th anniversary, celebrant, Aloysius Cardinal Ambrozic. St. Basil's

Church, 50 St. Joseph St. 3 p.m.
University of St. Michael's College

Annual Workshop on Commercial Consumer Law.

FRIDAY, OCTOBER 18 AND

SATURDAY, OCTOBER 19

This year's topics include Winners and Losers in the CBCA Amendments 2001; What Should We Expect From Outside Directors: Federal Powers and the Internal Common Market; Taxation and Electronic Commerce; Systemic and Cultural Challenges in the Harmonization of International Commercial Law; What Should Be Done About Section 347 of the Criminal Code? Enforceability of Foreign Revenue Claims and the Canadian Government's U.S. Tobacco Legislation; Consumer Protection in the Electronic Transfer of Funds. Solarium, Falconer Hall, Faculty of Law. Information and program details: Dace Veinberga, secretarial.lawsupport@utoronto.ca. Law, York University, Universities of Alberta, British Columbia, McGill, Queen's Saskatchewan and Canadian Business Law Journal

COMMITTEES

REVIEW

INSTITUTE FOR THE HISTORY & PHILOSOPHY OF SCIENCE & TECHNOLOGY

An external review committee has been established to review the Institute for the History & Philosophy of Science & Technology on Oct. 23 and 24. Members are: Professors Margaret

Osler, Department of History, University Calgary; and George Smith, Department of Philosophy, Tufts University.

The committee would be pleased to receive comments from interested persons. These may be submitted to Dean Carl Amrhein, Faculty of Arts & Science, Room 2020, Sidney Smith Hall.



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Professor Robin M. Hochstrasser

Donner Professor of Physical Sciences

Department of Chemistry, University of Pennsylvania

"Stretching Infrared Spectroscopy: Multidimensional infrared analogues of NMR applied to peptides, proteins and liquids"

Wednesday, October 9, 2002 at 4:00 p.m.

Room 158, Lash Miller Chemical Laboratories

"Gyring and Gimbling in the Wabes: Trying to make sense of single biomolecular fluorescence fluctuations"

Thursday, October 10, 2002 at 3:00 p.m.

Room 158, Lash Miller Chemical Laboratories

"Beating the Drum Sensing protein and molecular dynamics through the vibrations"

Friday, October 11, 2002 at 10:00 a.m.

380 Davenport Wing, Lash Miller Chemical Laboratories

TECHNOLOGY, TOLERANCE AND TERROR

By JOHN POLANYI

*The following has been adapted from *The World That Science Built*, the inaugural lecture of the University Professors lecture series.*

SCIENCE'S NEW THINKING HAS PROFOUNDLY affected our doing. In Elizabethan times life expectancy was 30. By the end of the 19th century, for the working class, it had risen to 40. Today in our part of the world, thanks largely to science, it is about 80. (But let us remember that in Sierra Leone it remains 37.)

Having highlighted of the importance of science, I should remind my profession to be humble. Their contribution does not stand alone. Not even in such a seemingly technical matter as health. Health depends in equal measure on politics, on philosophy, on education and on economics, all represented in future lectures in this series. And these disciplines in turn derive their inspiration from literature and art.

We should, for example, be conscious of the central contribution of literature to health. Writers from Shakespeare to Orwell, by confronting us with our common human predicament, have laid the basis for social and political reform. This was essential to raising the life-expectancy of the undernourished, the overworked and poorly cared for, from 40 to almost double that in two generations.

Nonetheless, science constitutes a vital new presence in our world. The major evidence for its pervasiveness is in technology, the sturdy child of science. But let us be clear that the child is not the parent. To have applied science, you must have science to apply.

Science is knowledge; systematic, often quantitative, knowledge. Knowledge differs from a list of facts in that it has context. And that is where the strength of the university lies. It deals, as its name implies, with the universe of knowledge. It is rich in context. It is the ideal setting in which to explore connections. Where those connections are surprising, they are called discoveries.

The scientist looking for connections is mapping the terrain of nature. But it is impossible to make a map if one is not free to follow the contours of the landscape.

It may surprise you to be told that the university researcher must struggle for the freedom to pursue a thought where it leads. Surely everybody wants scientists to make discoveries? Yes, they do. But those who pay for the research want to guide it. In doing so, they often impede it. In their desire to avoid waste they can cause it, by attempting to program the unprogrammable. This is a poor mode of governance. It is made worse by the pressure to disguise science, which is about knowledge, as technology, which is about utility. The freedom of the scholar is at risk when good work must be done by subterfuge.

Calls for freedom for the researcher to pursue basic science are not calls for freedom from responsibility. We must be held accountable, but to the right accountant; one who values new truth ahead of planned progress, and new insights ahead of dubious claims of commercial value.

I am not one to discount wealth in a world where so many go hungry. But, arguably, the greatest contribution that science has made to human well-being will turn out not to have been through technology, important as that is, but through the example of the community of science.

This is a competitive society of explorers which nonetheless puts truth ahead of personal advantage. In considering what is true it discounts nationality, race and ethnicity. It does not merely tolerate dissent, it encourages it. It has no heredity ruling class, no formal government, no police and yet little crime. Is it a society of angels? No, merely one which caters



LEON ZERNITSKY

to a need in all humanity to respect the truth.

I have claimed that the scientific community is tolerant since, in common with any democratic society, it feeds on dissent which is the source of tomorrow's wisdom. And yet the century past, with science in a position of dominance, has been one of dictatorships and savage intolerance. How can one reconcile these things?

The answer is that the successes of science have been misinterpreted. Science has been regarded as embodying a machinery of proof. There is no such machinery, and no such proof. There is only the careful accumulation of evidence, leading sometimes, as in a court of law, to a conviction. A conviction that can at any time be overturned by the uncovering of new evidence. And most often is.

Scientific propositions are not revealed truth. They are not edicts to be obeyed. They constitute stations on the unending path to truth. In science, if we are lucky, we approach the final truth, but at no time do we believe ourselves to have achieved it.

There is no basis here, therefore, for the merciless jihad that Hitler waged against the infidel races, and Stalin against the infidel classes. Once debate was free, both of these powerful movements fell victim to reason and decency. One can hope that the same process of education will lead to the demise of the contemporary jihad, whose hold on human imagination is much weaker. Osama bin Laden, on the run and in hiding, does not have the power of Hitler or Stalin.

There is, however, an error by which we could transform these few fanatics from a relic of the past into an unstoppable movement. This would be if

we were to leave large segments of humankind without hope. I have had a good deal to say about the civilizing effects of a voyage of discovery. But those civilizing effects are only present if there is a shared goal; a beacon of hope.

Louis XVI and the people of France had no shared hope. The social collapse that resulted gave us the term "terror" as part of the political lexicon. It should be a warning for evermore. Terror reappeared on the international scene with the bombardment of civilian populations in World War II. The rain of bombs was then replaced by a single bomb, no less terrible, in Hiroshima. Here was, in fact, the final instrument of terror; technology had arrived at the ultimate weapon.

With the arrival of an interconnected high-tech society, modern science had matched the perfect weapon with the perfect target, all its sinews laid bare. Concurrently, with the welcome devolution of political power from the state to the individual, war too had ceased to be a state monopoly. It had become privatized.

Terror had taken on a new meaning. It had become so diffused that it could not, as today it cannot, be eradicated by war. Terrorism, in common with other acts of anarchy such as murder and arson, can only be combatted by laws, by police, and above all, by public opinion. So long as the public from Northern

Ireland to Sri Lanka were willing to tolerate terrorism, it continued. When they ceased to do so, it was the beginning of the end of terrorism.

So it must be worldwide, or we will fall victim to our technology. The fruits of science, which should have benefit all of us, will have been poisoned. Science, committed as it is to humankind's shared pursuit of understanding, will have failed to remind us of our humanity. But by describing science as it really is, we can see to it that this great endeavour contributes, as it should, to civilized values.

John Polanyi is a University Professor in the Department of Chemistry.

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